

PHENIX WEEKLY PLANNING

5/24/2007 Don Lynch





Yesterday's Maintenance Day: May 23 2007

- HyTec VTX vibration tests
 - · 2 locations tested, NW & SW lower HBD mtg bracket
 - · 3 tests NW with & w/o magnets on, SW w/o magnets
 - · ~90 hz largest resonance spike, but still small
 - · No detectable change with magnets on
- · PC3-E FEM repair
- PbSc mainframe swap
- BBC daughter card repairs
- Ts5 ts server
- HBD capacitor decapitation test



Next 2 Maintenance Days: May 23, June 6 2007

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June 6?:
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MuTr Capacitor De-Capitations? HBD resistor adjustments?

June 20?: No plans yet

Get requests in early, especially if work permit required

PHENIX

RPC Factory

roll-up door



services on this wall



looking towards storage & assembly areas



looking towards tent area

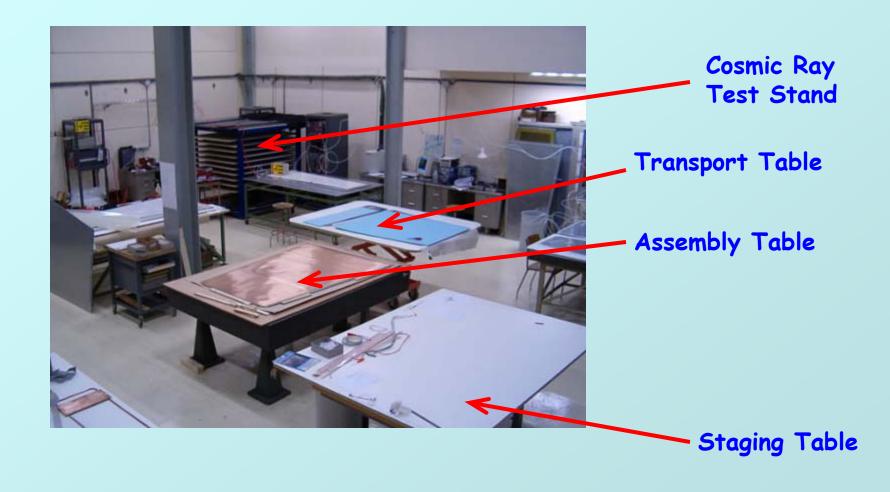


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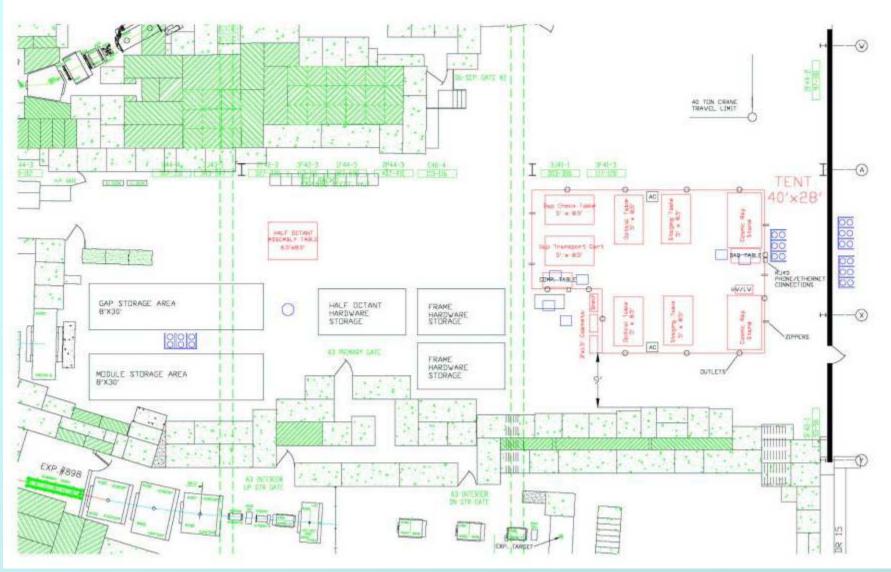
CMS Factory is similar to our Tent Layout





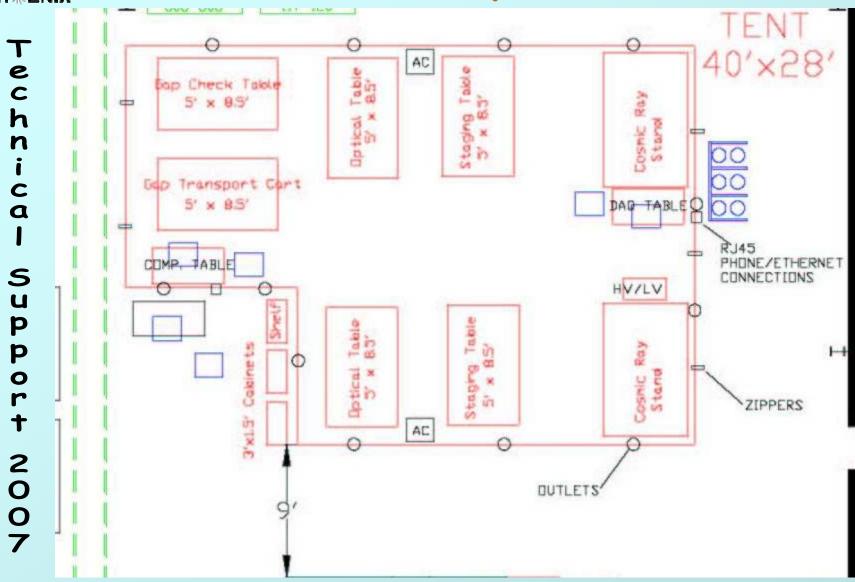
RPC Assembly "Factory" at BNL





PHENIX

Tent Layout





Equipment

Tent (Gap Testing, Module Assembly, Cosmic Ray Test), (existing from PHENIX PC w/ sealed lights and HEPA filters)

- 2 ~9000 btu/hr AC's (portable or window type)
- 1 Gap Check Table ~5' x 8.5'
- 2 Staging Tables ~5' x 8.5'
- 2 optical Tables ~5' x 8.5' for module assembly
- HV/LV Crate & Electronics
- DAQ Table ~3.5' x 5' holds DAQ Computer, CAMMAC & NIM Crate
- 2 Cosmic Ray Test stands ~6' x 9'
- 1 Computer Desk for data analysis computer ~3' x4'
- 2 Phone/ethernet connections for DAQ and computer desks
- 12 110V duplex outlets on 4-6 20 amp circuits (4-15 amp, 2-20 amp?)
- 1 Rolling transport table $\sim 5' \times 8'$ to move gaps & modules in tent & to storage
- ~ 4 chairs, 2 for each desk
- Book shelf



Equipment

Outside of Tent

- Storage racks for gaps, modules, raw materials & fabricated frame details
- Interior racks for test gases (near tent 2 R-134A, 1 SF6, 1 isopropane)
- Half octant assembly table
- $\frac{1}{2}$ ton-1 ton jib crane/A-Frame hoist for half octant ass'y area
- Tech area:
 - Desk & chairs
 - Hardware & tool cabinets (lockable)
 - Phone & internet (shared with tent computer)
 - · Book shelf
 - File cabinet (lockable)
- Outside of Building 912
 - Storage racks for spare and empy gas bottles
 - Area for N2 buggy
- Utilities
 - Electric, phone and internet
 - N2 gas lines from buggy to gap & module storage areas



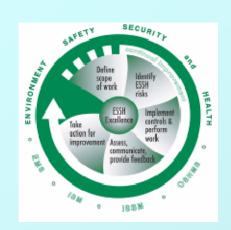
Equipment (Not in Layout)

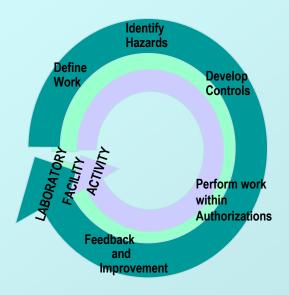
- Technical Sup P ort 2007
 - Security & Safety
 - Barriers (To Be Defined)
 - SF6/R134A detector
 - · Housekeeping & Misc.
 - Trash cans (2)
 - Water (Drinking)
 - Vacuum
 - Printer
 - Webcam (2?)
 - Weather station?
 - Portable ladder
 - Hand tools, portable electronic tools, etc.





Safety: ISO 14001 Registration Audit





ISO 14001 Registration Audit
This week... could still come to PHENIX

Anyone on site may be interviewed by the reviewers including PHENIX visitors on BNL site.

- 1. BNL has an ESSH policy (If you really want to be clever, know that ESSH is Environment, Safety, security and Health.).
- 2. Everyone is personally responsible for safety at BNL.





Procedures Review

Nothing New to report this week. Efforts will be continued this week



· Mech System Procs (13) Don to review

Determine if OK as is, needs rev./combine \rightarrow system expert input

This effort g



JTA Review

All training records gathered for PHENIX technical staff techs and engineers.

Cannot change JTA's yet because of inconsistencies in the sand Equivalencies.

Visual Basic/Excel property to the individual records



2007 Summer Shutdown Schedule

T	<u>Item</u>	<u>Start</u>	<u>Complete</u>
e			
C	RPC Factory set up	5/15	2011?
h	HBD West repair	4/26	9/14
n	End of Run 7	6/29	6/29
i	EOR Party	6/29	6/29
C	Flammable Gas Purge	6/29	7/2
a	Open Rolling Wall and Disassemble	7/2	7/9
1	MuID collar removal, MMS move S.	7/9	7/9
•	Disconnect EC and Move to AH	7/10	7/16
5	RPC Engineers coordination visit	7/16	7/26
u	Reconnect EC for maintenance in AH	7/16	7/23
р	Move MuID collar to AH	7/16	7/16
p	Install IR floor plates, rolling cart		
0	& move manlift to IR	7/17	7/18
r	Install CM access ladder	7/18	7/18
.	Remove HBD East	7/19	7/19
•	Remove MPC South	7/20	7/20
2	MPC South upgrade/ bench tests	7/23	8/13
Ō	Move CM south	7/23	7/23
	Remove SouthEast Vertical Lampshade	7/24	7/24
0	Remove MPC North	7/25	7/30
7	MPC North upgrade/bench tests	7/30	8/6



2007 Summer Shutdown Schedule (cont'd)

Technical

<u>Item</u>	<u>Start</u>	<u>Complete</u>
MuTr Capacitor Decapitation	7/25	8/31
Reinstall MPC North	8/6	8/13
Move CM North	8/13	8/13
Reinstall MPC South	8/13	8/20
Repair RXNP Phototube	8/13	8/20
Install CM Crane	8/20	9/3
Misc. Subsystem Maint./repair/Upgrade	7/16	10/1
Misc. Infrastructure Improvements	7/16	10/1
MuTr FEE Prototype (Sta. 2N lwr oct.)	9/3	9/28
HBD West Mechanical/Gas Reinstall	9/17	9/24
HBD EAST Mechanical/Gas Reinstall	9/24	10/1
HBD Electrical Reinstall	9/17	10/8
EC Roll In	10/8	10/10
DC East repair	10/11	10/12
HBD/MPC/Other TBD Commissioning	10/1	10/31
Start of Run 8	11/1	11/1

16



5 Year Plan

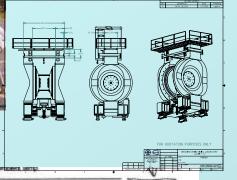
T e c h	2007	HBD Repairs, DC (minor) repairs), MPC N&S upgrade, MuTr FEE upgrade prototype, infrastructure upgrades & repairs, misc. subsystem work
n i c	2008	MuTr FEE upgrades 1 octant 1&2 S, Cu absorber test, RPC3 S, infrastructure upgrades & repairs, misc. subsystem work
a I S	2009	Scaffolding in MMS and MMN, MuTr FEE N&S stn. 2 & 3, MuTr N&S stn. 2 & 3 repairs, RPC2 S&N, RPC3 N, Cu absorbers, infrastructure upgrades & repairs, misc. subsystem work
u p p o	2010	Remove HBD & RXNP, remove beampipe, DC West upgrade, VTX barrel, RPC1 N&S, MuTr FEE stn. 1 N&S, MuTr stn. 1 N&S repairs, infrastructure upgrades & repairs, misc. subsystem work
r t	2011	NCC S, FVTX, infrastructure upgrades & repairs, misc. subsystem work
2 0 0	2012	NCC N, upgrades contingency & wishlist, infrastructure upgrades & repairs, misc. subsystem work
7		refer to the shutdown year and follow the run with the similar number

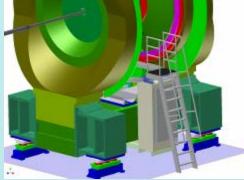
(i.e. work in 2007 is to be done in the shutdown that follows run 7, and so on)

^{5/24/2007}



- · Empty and discard old container
- · VTX chiller test
- · New Crane
- · Stairway to HBD
- · NCC Electronics
- · CM Extension Step





Low-Temperature Circulating and Open-Loop Process Chillers

For extra-cool applications, these compact and efficient chillies offer temperature control from 30° to 100° F. They cool was used to cool, such as bases. All fave an ex-cooled condenses and a low-pressure stefay control juriess noted. Chocus from closed-circulating and open-loop types. Commercions are NFT Senale. For indicor use only. All have soow terminals for thirdwing, unless noted. Children rated 3000 to 12,000 But/Hr. contain 134A refrigerant; as others contain R-22 refrigerant.

Stul VA	C sase) Amps		Pump Cap., gpm ∉ psi	Pipe Size	Overall Size, Ht. × Wd. × Dp.	Tiank Size,		Each	Open-Loop Liquid Chillers Each		J
6,000, 115 9,000, 115 12,000, 236 19,000, 236 11,000, 236 • Rated at	0 (1) 10 0 (3) 13 0 (3) 16 : 68° F liquid	temperatu	3 @ 10 3 @ 10 5 @ 25 12 @ 40 ro: 80" F an	beant b	13" + 14" + 17" 28" + 15" + 17" 30" + 18" + 25" 30" + 18" + 25" 41" + 28" + 28" 41" + 28" + 28" 41" + 28" + 28" and open-loop	10.	2538K65 2538K67 2538K67 2538K76 2538K75 3538K77 2 power cord v sations. ♥ Pu	3637.83) 3196.74 3638.39 5729.45 6840.87 with standard		8,000- 12,000 Bhu/W.	
Precis	ion Cir	culat	ing Pro	ces	s Chiller	5			dure between 14° and		1





Where To Find PHENIX Technical Info



Memorial Day Holiday

Next Monday

Remember to Remember









Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm